NavAdr Technologies Solutions

A-04, Street of Europe, Hinjewadi-Phase1
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This **intermediate-level Data Analyst curriculum** is structured to help participants gain 2–3 years of equivalent experience. It focuses on data analysis fundamentals, visualization, SQL, and tools like Excel, Python, Power BI, and Tableau.

Week	Module	Topics Covered
1	Introduction to Data Analysis	Role of a Data Analyst, Data Lifecycle, Types of Data (Structured, Semi-Structured, Unstructured).
2	Fundamentals of Excel	Advanced formulas, Pivot Tables, Charts, and Data Cleaning using Excel.
3	SQL Basics	SQL syntax, SELECT statements, Joins, Aggregations, Grouping, Filtering.
4	Advanced SQL	Window functions, CTEs, Subqueries, Indexing, Query Optimization.
5	Data Visualization Basics	Fundamentals of data visualization, Best Practices, Chart Selection.
6	Power BI: Beginner Level	Setting up Power BI, Data Import, Building Basic Reports and Dashboards.
7	Power BI: Intermediate Level	DAX expressions, Power Query, Creating Calculated Columns and Measures.
8	Tableau: Beginner Level	Connecting to Data, Building Worksheets, Basic Filters, and Charts in Tableau.
9	Tableau: Advanced Level	Advanced Calculations, LOD Expressions, Dashboard Interactivity.
10	Data Cleaning and Preparation	Data Cleaning Techniques in Python (Pandas), Handling Missing Data, Outliers.
11	Data Analysis with Python: Part 1	Introduction to Python, Pandas for Data Wrangling, NumPy for Data Manipulation.
12	Data Analysis with Python: Part 2	Data Aggregation, Grouping, and Advanced Data Manipulation in Python.
13	Statistical Analysis Basics	Descriptive Statistics, Probability Distributions, Sampling, Hypothesis Testing.
14	Advanced Statistical Analysis	Regression Analysis, ANOVA, Correlation, and Covariance.
15	Business Intelligence Basics	Introduction to Business Metrics, KPIs, and Performance Dashboards.
16	Dashboard Development: Advanced Concepts	Advanced Dashboard Design in Tableau and Power BI, Performance Optimization.
17	Data Storytelling	Crafting Insights, Creating Presentations, and Storyboarding for Stakeholders.
18	Big Data for Analysts	Introduction to Big Data, Querying Big Data with SQL, and Connecting BI tools to Big Data Platforms.

NavAdr (Nurturing AI-driven Vision and Advancement in Data and Reengineering)

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Week	Module	Topics Covered
19	Data Governance and Ethics	Understanding GDPR, Data Privacy, and Best Practices for Responsible Data Handling.
20	Data Automation	Automating Reports with Python (e.g., using OpenPyXL), Scheduling in Power BI.
21	Case Study 1: Descriptive Analysis	Solving a real-world business problem using descriptive analytics in Excel or Power BI.
22	Case Study 2: Predictive Analysis	Building a predictive model using Python and integrating the results into dashboards.
23	Capstone Project Development	End-to-end data analysis project, including data cleaning, visualization, and reporting.
24	Capstone Presentation	Final Project Presentation
25-36	Live Project Exposure	3 Months Live Project Exposure

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